SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5 Chikkasandra, Hesarghatta Main Road, Bengaluru – 560057

AUG 2022

MISSION

M1: To enable learning in emerging technologies adopting innovative methods.

M2: To enhance ability, cultivate collaboration to bring change in building students approach towards society.

M3: To make available platform for harnessing entrepreneurial and leadership qualities.

M4: To partner continuously with industry to Inculcate practical knowledge.

VISION

To be a potential quality source of expert computer engineers, addressing the requirements of industry and civic demands at large.

SRI G. DAYANAND, CHAIRMAN

The "COMPU NET - The Information Hub" newsletter of the department of Computer Science & Engineering is providing great space for the students and faculty to pen down their innovative ideas, imagination and perceptions to showcase creativity. So, I take the opportunity to congratulate the Department of CSE and its editorial team to successful release of this issue. I am sure that students and faculty will find the content of this edition very interesting and educating.

SRI G. D. MANOJ, EXECUTIVE DIRECTOR

I am indeed happy to share that the department of Computer Science & Engineering is having its monthly newsletter "COMPU NET - The Information Hub". I personally urge all faculty members and students of the department to make use of the platform to share and educate among themselves in publishing article pertaining to the emerging domain and interesting facts. I congratulate the team of the Computer Science & Engineering editorial committee.

PRINCIPAL'S DESK

It gives me immense pleasure to note that, SCE has been publishing bi-annual newsletter and I am sure, this will provide an opportunity for the faculty and students to share their knowledge and beacon the information about various issues and activities that are being taking place in the department. I look forward for more activities and achievements for the department to march towards excellence in the future. I would like to thank all teaching, supporting staff and our beloved students for their active participation in publishing this magazine. My special compliments and congratulations to the editorial team of the department for their consistent effort in publishing this newsletter.

DR. M H ANNAIAH, VICE-PRINCIPAL

I am very happy and delighted to know that our college is bringing out the college newsletter. SCE is one of the leading premier engineering colleges in the country offering quality technical education to students thereby enabling them to become globally acceptable engineers in their domains. The newsletter provides a platform for both faculty and students to showcase their achievements and hidden talents. I congratulate our beloved principal and members of editorial board for bringing out this excellent and informative newsletter on time.

HOD'S DESK

The Computer Science & Engineering Department was established in the year 2001 with an intake of 60 students and the current intake is 120 students. The department established a Research Centre in 2013, affiliated to VTU Belagavi. The department aims to produce engineering graduates with adequate theoretical and practical knowledge in the area of computer science so as to make them capable of design, implementation, development and maintenance of high-quality software products meeting industry standards. I am very proud to express that our department is coming out with a new venture that is a newsletter to share various events and thoughts that have happened.

AWARENESS OF MS CERTIFICATION ON ML AND AI USING PYTHON

The Seminar on Awareness of MS Certifications on ML and AI using Python by ATS | Learning solutions was organized by Dept of CSE for higher semester students of Sapthagiri College of Engineering, Bangalore on 5th January 2022. In this seminar the resource person gave an idea about Microsoft Certifications on machine learning and and Artificial Intelligence using Python

ONLINE QUIZ

The Quiz was organized to enhance the knowledge of students in programming and subject concepts which are required for any interviews. It was organized by Dept of CSE for our students of CSE Department, Bangalore on 14th January 2022. In this online quiz the questions were based on subjects like C programming, data structures, operating system, machine learning, etc. Students have participated in the quiz and have enhanced their knowledge about the differences.

Participants list

Name	Name	Name	Name
Anitha	Aishwarya S	Deepthi S	Ujwal Gowda. V
Kirankumar hm	S vinodkumar	Nagaraju k	Soundarya
Yashaswini M Kotegar	Nidhi N Sattigeri	Deepthi S	Preetha S Jois
A Y Gunarachana	Vishal R	Nidhi N Sattigeri	Vipin KS
Vidhyakrishna	Harshitha.J	H N Nithyasree	Devadutta B R
Madhuri M K	Vidish gupta	SANCHITHA.K	Divya B S
Apoorva A	Keshav Chandra Ray	Chethana R kariger	Kavya P
Utkarsh Gaurav	Praneet V K	Yashaswini N	H N Nithyasree
Chaitra D	Manjunath Bharadwaj V	Archana G	SANCHITHA.K
CHAITRA	Aishwarya S	Bhaskar p	Chethana R kariger
Bindu L	S vinodkumar	SANTHOSH K	Yashaswini N
Roopa U	Akshay Kumar Joshi	N. PanduRange Gowd	Archana G
Pavan.R	Vishal R	Suvidha Manjunath Naik	Bhaskar p
Sonali M	Harshitha.J	Darshan K S	SANTHOSH K
Khushi Shekhar T C	Vidish gupta	Sangeetha J	N. PanduRange Gowd
MANASA R	Keshav Chandra Ray	HRUTHKARSHA D S	Suvidha Manjunath Naik
UMESH R G	Praneet V K	Bhoomika D K	Darshan K S
Nisarga.S	NITHEESH B S	Ujwal Gowda. V	Sangeetha J
Pooja N M	Kavya S	Soundarya	HRUTHKARSHA D S
M Lakshmi Naveen Reddy	Kajal Dahiya	Preetha S Jois	Bhoomika D K
Bhavya Vaishnavi	Manasa	Vipin KS	K N Bhavya
Anusha ML	Pramod Kumar S J	Devadutta B R	Monika A
Shreyasi Patra	Keerthana S	Divya B S	Megha Talekar
Tejaswini M	Anusha S	Kavya P	Kokila N
Sahana Gajanan Naik	Mandhara B G	Anusha S	Akshay Kumar Joshi
Shubhashish Pathak	Supriya K	ETUKULAPATI MEGHANA	Nagaraju k

WEBINAR ON DATA ENGINEERING

The webinar on Data engineering was organized by Dept of CSE for 3rd semester students of Sapthagiri College of Engineering, Bangalore on 27th January 2022. In this webinar the resource person Mr. Abhishekh Verma (business technology solution consultant, ZS associate) explain about data engineering and also gave an brief idea about how it used in IT industries.

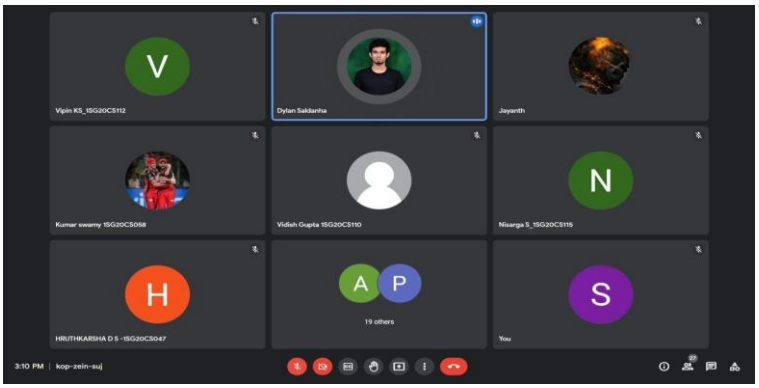
TEST YOUR C PROGRAMMING SKILLS

participation List- C Quiz		
Name	USN	Branch
Pavan	1sg21ec056	EC
Arvind	1SG21IS15	IS
Mohith R	1SG21CV015	Civil
Gurulingu R	Eco25	Ece
Shreyas SR	1SG21CV025	Civil
Shalini c	1SG21EC064	Electronics and communication
Sanjana	1SG21EC062	EC
Sinchana A	1SG21EC067	Electronics and communication
Samriddhi. V.khandelwal	1SG21EC061	Ece
Sudharsan L	1SG21ME018	Mechanical
Guruprasad.M	1SG21cv008	Civil
Harish kumar MS	1SG21EC027	Electronics and communication
Nikshith Chandru	1SG21EC047	ECE
Deepthi M	1SG21BT046	Biotechnology
Shrinidhi2303	1SG21BT025	Biotech
Bhagath SG	1SG21EC013	ECE
Rajeshwari	1SG21EC102	Ec
Shashank B A	1SG21CV023	Civil
Ruthik US	1SG21EC059	EC
K G Aiswarya dev	1SG21EC034	ECE
Hariprasad M S	1SG21EC026	ECE
Meghana G S	1SG21EC120	ECE
B S Nandan Kishore	1SG21EC011	Electronics and communication engineering
Adithya A Murthy	1SG21ME002	Mechanical
Bhoomika.R	1SG21EC016	ECE
Manoj Gowda am	1SG21EC041	Ece
Gagan H	1SG21EC023	ECE
Yuvaraj I K	1SG21EC108	ECE
Rohit.n	1SG21EC055	Ec
Srinivasan R	1SG21BT028	Biotechnology
Janavi R	1SG21BT012	Biotechnology
Nikhitha	1SG21BT020	Biotechnology
Darshan. P	1SG21BT008	BIOTECHNOLOGY
V Vishnu	1SG21EC081	ECE
Hemanth Kumar A R	1SG21EC030	ECE
Sreevatsa	1SG21EC070	ECE
Ankith M	1SG21EC006	ECE
G Sai Tilak	1SG21EC021	Electronic and communication
Abhishek S K	1SG21EC125	EC
Bhargavi K.C	1SG21EC110	EC
Abhijith Sai Chinni	1SG21EC001	ECE
Himali	1SG21EC031	ECE
Tejaswini S S	1SG21EC078	Electronics and communication
Sinchana. C	1SG21EC068	EC
Thrisha. Bai. D	1SG21EC080	ECE
Abhipriya kumar singh	1SG21CV030	Civil

Department of Computer Science & Engineering conducted E-Quiz for all first sem students. 202 students of different branches participated. 20 Questions were asked in the quiz. Well targeted, tailor-made quizzes can boost self-esteem and confidence. Students can challenge themselves, able to succeed, their confidence can grow. Quizzes help students identify what they know and what they don't know.

EDUCATE REGARDING INTELLIGENT AUTOMATION

The webinar on Intelligent Automation was organized by Dept of CSE for 3rd semester students of Sapthagiri College of Engineering, Bangalore on 25th February 2022. In this webinar the resource person Mr. Dylan Saldanha (Senior Software Engineer LTI) explain about automation and also gave brief idea about how it used in automating the attendance system in education sector .



MINI PROJECT EXHIBITION

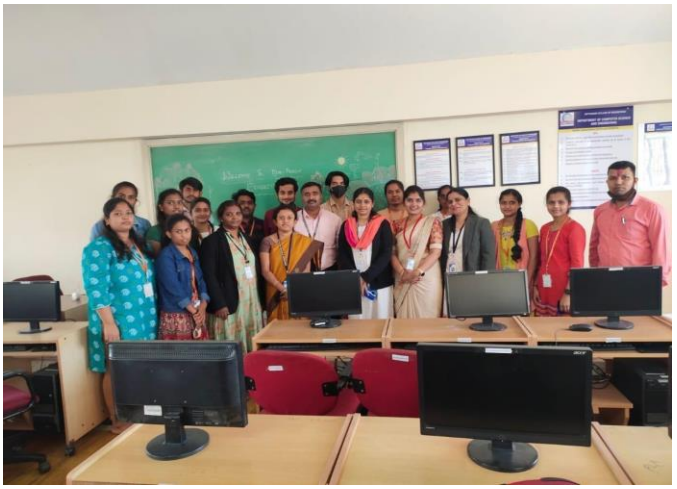
PROJECT EXHIBITION was organized by the Department of Computer science and Engineering,on 8th of March 2022. 3rd semester students were participants of this exhibition. Major objective of organizing this exhibition was to provide the platform and unleash the potential of the students by showcasing their innovative projects. The outcome of the **PROJECT EXHIBITION** was that students were able to show their project at a higher level and the process boosted their confidence.

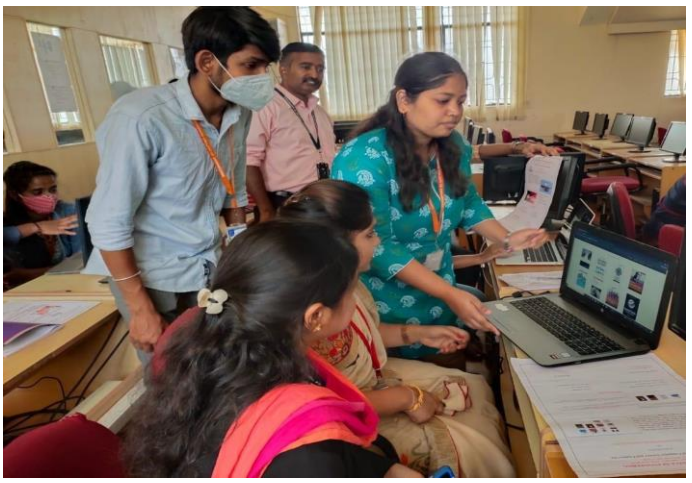
TEST YOUR C PROGRAMMING SKILLS SERIES 02

The Department of Computer Science & Engineering conducted E-Quiz for all first sem students. 202 students of different branches participated. 20 Questions were asked in the quiz. Well targeted, tailor-made quizzes can boost self esteem and confidence. Students can challenge themselves, be able to succeed, and their confidence can grow.

DBMS MINI PROJECT EXHIBITION

PROJECT EXHIBITION was organized by the Department of Computer science and Engineering,on 18th of March 2022. 5th semester students were participants of this exhibition.Major objective of organizing this exhibition was to provide the platform and unleash the potential of the students by showcasing their innovative projects he outcome of the PROJECT EXHIBITION was that students were able to show their project at higher level and the process boosted their confidence.





SMART INDIA HACKATHON

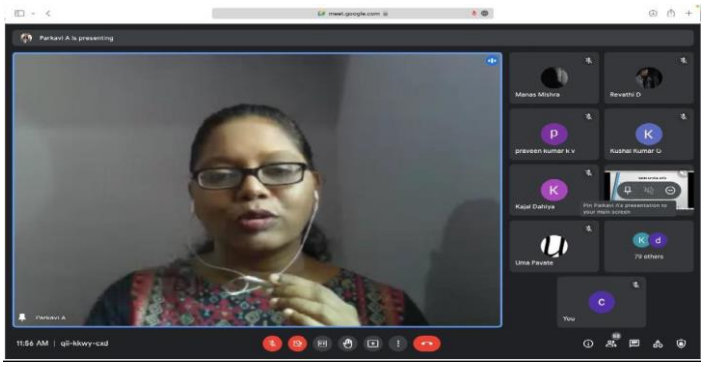
SIH is the World's Biggest Hackathon and Open Innovation model. Smart India Hackathon 2020 is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives. Students across India compete creatively to solve problems of Ministries, Departments and Industries to give solutions Harness.

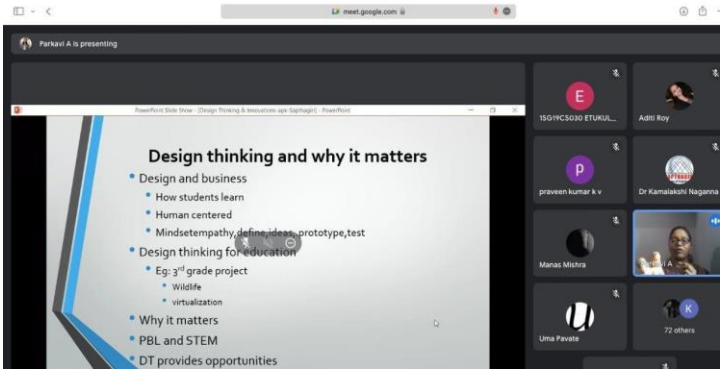
MEAN STACK TECHNOLOGY

Alumni talk was conducted for the benefits of enhancing and improving the knowledge of Mean Stack technology with industry perspective for the 6TH Semester Students of Department of Computer Science and Engineering, Sapthagiri College of Engineering, Bangalore on 23rd APRIL 2022. The following topics were discussed in the sessions:-About Mean Stack Technology, Four Key Technologies that make up the layers of stack MongoDB, ExpressJS, AngularJS, and Node.JS.

INTRODUCTION TO INNOVATION AND DESIGN THINKING

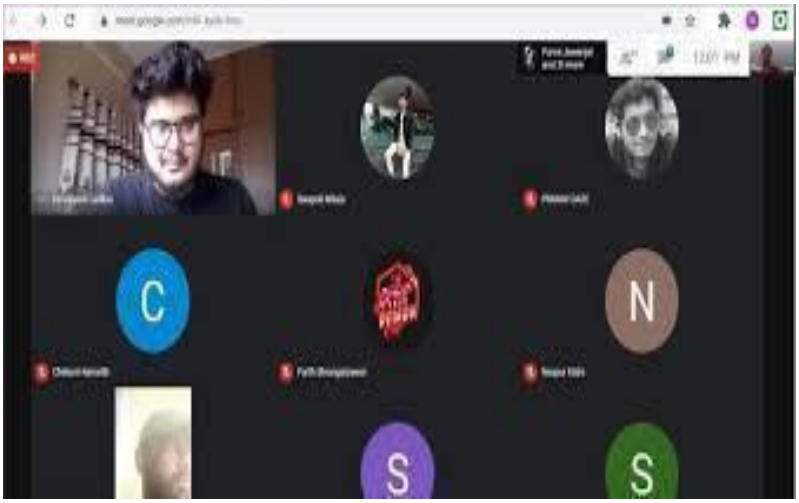
Online webinar was conducted for the benefits of enhancing and improving the knowledge of Innovative and design thinking in daily life with industry perspective for all the Students of Department of Computer Science and Engineering, Sapthagiri College of Engineering, Bangalore on 30th April 2022. The following topics were discussed in the sessions :- **Choose a strategic topic to focus on and learn about**. Design thinking starts with an end goal, a desired future, and approaches to how you can make it happen.





DATA SCIENCE FOR CLOUD APPLICATION

A one day workshop was conducted on DATA SCIENCE FOR CLOUD APPLICATIONS for 6th Semester Students at Sapthagiri College of Engineering, Bangalore on 24-04-2022.This webinar on "DATA SCIENCE FOR CLOUD APPLICATIONS" aimed to provide exposure for students to enrich their knowledge on recent techniques and its application in real world.. Students were interacting throughout the session.

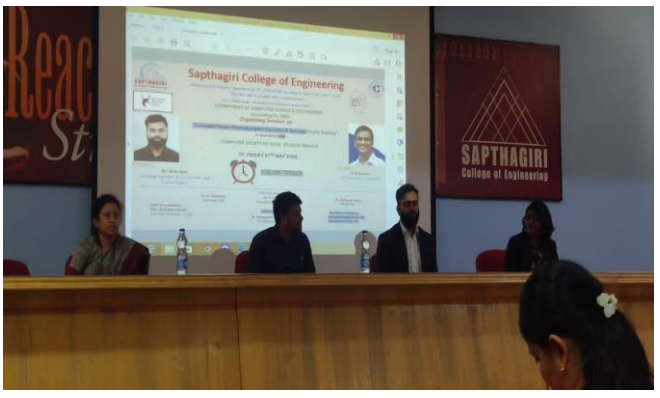


RECENT TRENDS IN SOFTWARE TEST AUTOMATION

The seminar was conducted for the benefits of enhancing and improving the knowledge On Recent Trends on Software Test and Automation with industry perspective for the 6TH Semester Students of Department of Computer Science and Engineering, Sapthagiri College of Engineering, Bangalore on 20th May 2022. The following topics were discussed in the sessions:-About Testing Pyramid, Top 10 Testing Trends- Smart Testing, Devops, AI/ML, RPA, Agile, Test Automation, API Testing, Mobile Test Automation, Big Data Testing, IoT Testing.

SUCCESSFUL CAREER PLANNING, HIGHER EDUCATION AND TECHNICAL PROFILE BUILDING

Seminar was regarding **"*Successful Career Planning, Higher Education & Technical Profile Building*".**This was conducted for the benefits of the students who are going to attend the placement in forthcoming semester. The session began by welcoming the resource person. Fourth semester students Aishwarya Singh and Chandana. V hosted the program followed by the session started .Students of 6th semester got enough guidance for planning their career. Students interact with resource persons. Some of the students interacted personally to sort out the things they did not understand.



IP MULTIMEDIA SUBSYSTEM

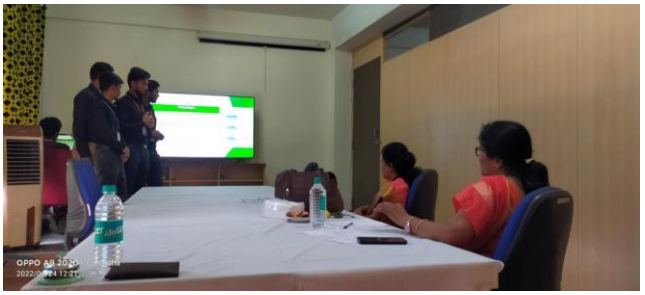
Alumni talk was conducted for the benefits of enhancing and improving the knowledge of **IP Multimedia Subsystem** with industry perspective for the 6TH Semester Students of Department of Computer Science and Engineering, Sapthagiri College of Engineering, Bangalore on 23rd JUNE 2022. The following topics were discussed in the sessions:-About **IP Multimedia Subsystem** or IMS is a standards-based architectural framework for delivering multimedia communications services such as voice, video and text messaging over IP networks. The IMS specifications were originally created by the 3rd Generation Partnership Project (3GPP) to standardize the implementation of next-generation mobile networks

PROJECT EXHIBITION

The Department of Computer Science & Engineering organized a Project Exhibition on 27th JUNE, 2022 for students of all the 8th semester students in both A & B sections. The students attended the session. The outcome of the PROJECT EXHIBITION was that students were able to show their project at a higher level and the process boosted their confidence. The inaugural of the project exhibition witnessed the presence of Dr.H Ramakrishna, principal, SCE, along with the judges from EC department Dr.Nagraj and from IS department Prof.Prerna Chaitra and also the faculties and staff members of Department of CSE, SCE Prof. Kamalakshi Naganna, HOD, CSE Department formally welcomed the principal of SCE, Dr.H Ramakrishna, principal, SCE, in his motivational address emphasized on the importance of learning new technologies and tools for the students. Prof. Kamalakshi Naganna, HOD, CSE Department, SCE,shared her valuable knowledge among the students highlighting the importance of project making

INTERNATIONAL CONFERENCE

Department of Computer Science & Engineering is associated with all other branches of sapthagiri college of engineering, CMTI, INVEST,VOLVO organized an International conference on 24-26th June 2022. We have received 62 papers from different places. Dr. Narasimha Murthy gave the keynote address from 10.00 am to 11.30 am. 11.30 am to4.30 pm about 25 researchers presented their papers in front of session chair Dr Asha T, Professor Dept. of CSE BIT, Bangalore and Dr. Kamlalakshi Naganna Prof. & Head Dept. of CSE , SCE Bangalore along with other research scholars. Second day on 25th June about 27 students presented papers in front of session chair Dr. SHANTHARAM NAYAK Professor and Head Dept. of CSE SKIT ,Bangalore and Dr. Praveen Kumar K V , Professor Dept. of CSE,SCE Bangalore.
This International Conference has provided the platform to exhibit their knowledge on research and new innovative thoughts. It helps others to be aware of recent technologies and on-going research.

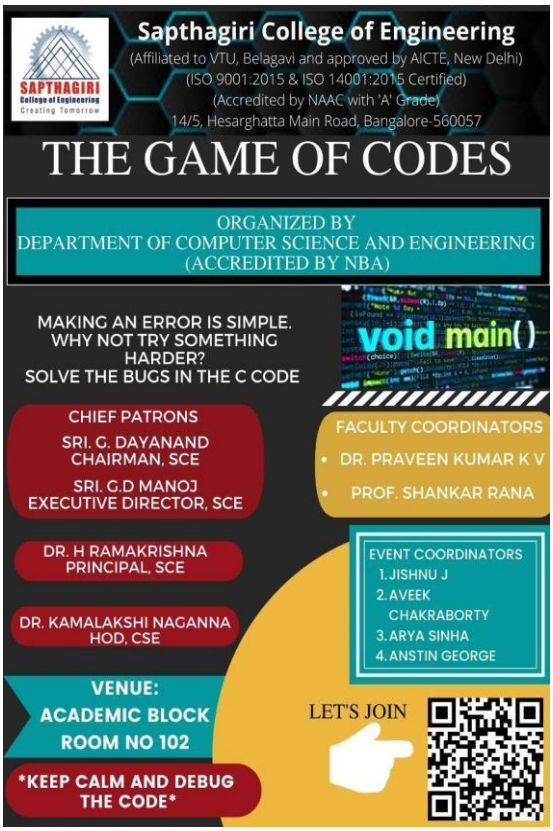


CG MINI PROJECT EXHIBITION

The Department of Computer Science & Engineering organized a Mini Project Exhibition on 18th July, 2022 for students of all the 6th semester students in both A & B sections. The students attended the session. The outcome of the PROJECT EXHIBITION was that students were able to show their project at a higher level and the process boosted their confidence. The inaugural of the project exhibition witnessed the presence of Dr.H Ramakrishna, principal, SCE, and Prof. Kamalakshi Naganna, HOD, CSE along with the faculties and staff members of Department of CSE, SCE

CODING AND DEBUGGING EVENT

CODING AND DEBUGGING EVENT was conducted for the benefits of enhancing and improving the knowledge On writing code and debugging the errors in the programming. This event was organized for 6th , 4th and 2nd Semester Students of the Department of Computer Science and Engineering, Sapthagiri College of Engineering, Bangalore on 5th July, 2022.



SL.NO	FACULTY NAME	FDP TITLE	NO. OF DAYS	DATE (FROM-TO)	PLACE
01	DR.KAMALAKSHI NAGANNA	DEVELOPING AND DEPLOYING SPRING BOOT MICROSERVICES ON KUBERNETES CLUSTER	5	22nd to 26th August 2022	RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU
02	DR. PRAVEENKUMAR K V	BEST PRACTICES FOR EFFECTIVE IMPLEMENTATION OF NEP-2021	1	29-01-2022	VIDYA SANSKAAR INSTITUTE OF SCIENECT
		ADVANCES IN NATURAL LANGUAGE PROCESSING USING AI	5	14-03-2022 TO 18-03-2022	VIMAL JYOTHI ENGINEERING COLLEGE
		INNOVATIVE TOOLS/TECHNIQUES TO IMPROVE QUALITY OF TEACHING LEARNING	3	07-04-2022 TO 09-04-2022	SCE, BANGALORE
03	DR. LAVANYA N L	PROGRAMMING FUNDAMENTALS USING PYTHON	5	17th-21st October 2022	BENGALURU
04	PROF. LATHA A	INNOVATIVE TOOLS/TECHNIQUES TO IMPROVE QUALITY OF TEACHING LEARNING	3	07-04-2022 TO 09-04-2022	SCE, BANGALORE
05	PROF. CHAITHRA	ADVANCES IN NATURAL LANGUAGE PROCESSING USING AI	5	14-03-2022 TO 18-03-2022	VIMAL JYOTHI ENGINEERING COLLEGE
06	PROF. SWETHA B N	OBJECT ORIENTED PROGRAMMING WITH JAVA	5	28 nov-03 dec 22	SJCIT
		EY'S NEXTGEN	5	4th -	BENGALURU

		LEARNING		**9th May**	
		INNOVATIVE TOOLS/TECHNIQUES TO IMPROVE QUALITY OF TEACHING LEARNING	**3**	**07-04-2022 TO 09-04-2023**	**SCE, BANGALORE**
		MOBILE APPLICATION DEVELOPMENT	**3**	**04-04-2022 TO 06-04-2022**	**SCE, BANGALORE**
		TRAIN THE TRAINER PROGRAM ON CREATING MICROSITES INFOSYS SPRINGBOARD	**4**	**24-01-2022 TO 27-01-2022**	**ONLINE**
		FACULTY ENABLEMENT PROGRAM (FEP) ON PYTHON PROGRAMMING	**5**	**13-06-2022 TO 17-06-2022**	**ONLINE**
07	**PROF. HEMALATHA K**	**OBJECT ORIENTED PROGRAMMING WITH JAVA**	**6**	**28 nov-03 dec 22**	**SJCIT**
		AN OVERVIEW OF TEACHING TECHNIQUES IN INNOVATION AND DESIGN THINKING	**5**	**06-12-2021 TO 10-12-2021**	**AICTE-VTU (ONLINE)**
		ADVANCES IN NATURAL LANGUAGE PROCESSING USING AI	**5**	**14-03-2022 TO 18-03-2022**	**VIMAL JYOTHI ENGINEERING COLLEGE**

		INNOVATIVE TOOLS/TECHNIQUES TO IMPROVE QUALITY OF TEACHING LEARNING	**3**	**07-04-2022 TO 09-04-2023**	**SCE, BANGALORE**
08	**PROF. VANITHA G P**	**OBJECT ORIENTED PROGRAMMING WITH JAVA**	**6**	**28 NOV-03 DEC 22**	**BENGALURU**
09	**PROF. SHEELA RANI C M**	**AN OVERVIEW OF TEACHING TECHNIQUES IN DATA SCIENCE AND ANALYTICS**	**5**	**25th-29th April 2022**	**BENGALURU**
		CYBER SECURITY AND ETHICAL HACKING	**5**	**7TH-11TH JUNE 2022**	**BENGALURU**
10	**PROF. RAKESH KALSHETTY**	**INTRODUCTION TO CYBER SECURITY**	**5**	**22nd - 26th May**	**BENGALURU**
11	**PROF. AKSHATHA KAMATH**	**INNOVATIVE TOOLS/TECHNIQUES TO IMPROVE QUALITY OF TEACHING LEARNING**	**3**	**07-04-2022 TO 09-04-2023**	**SCE, BANGALORE**

		TRAIN THE TRAINER PROGRAM ON CREATING MICROSITES INFOSYS SPRINGBOARD	**4**	**24-01-2022 TO 27-01-2022**	**SCE(ONLINE)**
12	**PROF.MADHUSHREE**	**FEATURE ENGINEERING IN DATA SCIENCES DEEP LEARNING MODELS**	**5**	**25-08-21 TO 29-08-22**	**GAT, BANGALORE**
		FACULTY ENABLEMENT PROGRAM (FEP) ON AI AND ML	**5**	**06-06-2022 TO 10-06-2022**	**ONLINE**
13	**PROF. SHASHIREKHA G**	**INNOVATIVE TOOLS/TECHNIQUES TO IMPROVE QUALITY OF TEACHING LEARNING**	**3**	**07-04-2022 TO 09-04-2022**	**SCE, BANGALORE**
		THE ROLE OF DIGITAL TECHNOLOGYDEVELOPMENT IN MSME	**1**	**17-03-2022**	**VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU**
		TYPES AND FUNCTIONS OF COPYWRITING	**1**	**14-03-2022**	**VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU**
		DEVELOPMENT OF MOTION CAPTURE TECHNOLOGY AND IMPLEMENTATION ON ANIMATION	**1**	**16-03-2022**	**VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU**
		DIGITALIZATION IN LEARNING TECHNOLOGY	**1**	**15-03-2022**	**VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU**

SL. NO	FACULTY NAME	PAPER TITLE	JOURNAL NAME	DATE	VOLUME	ISSUE
1	Dr.Lavanya N L	IMPROVING MEDICAL IMAGE PIXEL QUALITY USING MICQ UNSUPERVISED MACHINE LEARNING TECHNIQUE	Malaysian Journal of Computer Science	2022-12-06	https://doi.org/10.22452/mjcs.sp2022no2.5	Special Issue on Computing, Communication and Cyber Physical Systems
2	Dr.Lavanya N L	Survey On Object Detection, Face Tracking, Digital Mapping and Lane Following For Remotely Piloted Aerial Systems (RPAS)	International Journal of Human Computations and Intelligence	April-2023	Vol2,	issue 2
3	Dr.Lavanya N L	Enhancing the Capabilities of Remotely Piloted Aerial Systems Through Object Detection, Face Tracking, Digital Mapping and Gesture Control	International Journal of Human Computations and Intelligence	May-2023	Vol2,	issue 3
4	Dr.Lavanya N L	Survey on Abnormal Event Detection and Signalling in Multiple Video Surveillance Scenes Using CNN	International Journal of Human Computations and Intelligence	May-2023	Vol2,	issue 3
5	Dr.Lavanya N L	Abnormal Event Detection and Signaling in Multiple Video Surveillance Scenes Using CNN	International Journal of Human Computations and Intelligence	May-2023	Vol2,	issue 3
6	Bhanujyothi H C	Survey on Virtual dressing room system using Deep Neural Networs	IJRASET	May-2023	Volume 11 https://doi.org/10.22214/ijraset.2023.51835	Issue V
7	Bhanujyothi H C	Design and developing Virtual Dressing Room using Deep Neural Networks	IJRASET	May-2023	Volume 11 https://doi.org/10.22214/ijraset.2	Issue V

					023.51835	
8	Roopa Banakar	Analysing Cryptocurrency Pump and Dump Scams	IJRASET	May-2023	Volume 11 https://doi.org/10.22214/ijraset.2023.52147	Issue V
9	Roopa Banakar	Real-Time Sign Language Recognition System for Hearing and Speech Impaired People	IJRASET	May-2023	Volume 11 https://doi.org/10.22214/ijraset.2023.52371	Issue V
10	vanitha g p	secure decentralized vehicle sharing system using block chain	IJRASET	May-2023	volume 11https://doi.org/10.22214/ijraset.10.22214	issue V
11	Hemalatha K	Implementation on IoT based Traffic Management system for emergency vehicles	IJRASET	May 2023	Volume 11	issue V
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